

PRODUCT SAFETY DATA SHEET

**CABADEX
MAPP 13948**

A herbicide for amenity horticulture and managed amenity turf

1. Marketed by:

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2. Composition:

Ingredient	CAS No	Concentration	Classification	Risk Phrases
Florasulam	145701-23-1	0.25%	N	R50/53
Fluroxypyr 1-methylheptyl ester	081406-37-3	14.5%	N	R50/53
Solvent naphtha (petroleum), light aromatic	64742-95-6	30-40%	Xn, N	R10, R37, R51/53, R65 R66, R67

3. Hazards:

3.1 Classification of Preparation:

IRRITANT
TOXIC TO AQUATIC ORGANISMS

3.2 Primary Hazards

Irritating to skin and eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures:	
4.1 Eyes:	Flush with clean water for at least 15 minutes. Obtain medical attention without delay.
4.2 Skin:	Remove contaminated clothing. Wash thoroughly with soap and water.
4.3 Ingestion:	DO NOT induce vomiting. Seek immediate medical attention. The decision whether to induce vomiting or not should be made by a physician.
4.4 Inhalation:	Remove from source of exposure into fresh air. Consult a doctor.
5. Fire Fighting Measures:	
5.1 Suitable Extinguishing Media The product will not burn. Use dry chemical, foam, water fog or fine spray, carbon dioxide. Keep containers cool.	
5.2 Unsuitable Extinguishing Media As appropriate for surrounding fire.	
5.3 Special Hazards, Combustion or By-Products Smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Prevent entry of the product or contaminated water into watercourses, ditches or drains.	
5.4 Protective Clothing for Fire Fighting Suitable protective clothing and breathing apparatus.	
6. Accidental Release (Spillage):	
6.1 Personal Precautions Wear suitable protective clothing and eye/face protection (See section 8).	
6.2 Environmental Precautions Prevent entry of the product or contaminated water into watercourses, sewers or drains. Inform the proper authorities if gross contamination of water is threatened or occurs.	
6.3 Clean & Disposal Methods Soak up spillage with inert material such as sand or earth. Contain runoff to prevent entry into water or drainage systems.	

7. Storage and Handling:

7.1 Practical Precautions and Engineering Controls for Safe Handling

Wash hands and exposed skin before eating or drinking and after work. Avoid contact with the eyes or skin. DO NOT consume or store food in the work area.

7.2 Conditions and Quantity Limits for Safe Storage

Keep in original container, tightly closed. Keep cool and dry in a well ventilated place. Keep away from food, drink and animal feeding stuffs and out of reach of children. Avoid contact with skin, eyes or clothing.

8. Personal Protection:

8.1 Exposure Limit Values

Fluroxypyr 1-methylheptyl ester: Dow AgroSciences IHG is 10mg/m³

Solvent naphtha (petroleum), light aromatic: Supplier recommendation is 19ppm.

8.2 Occupational Exposure Controls

Good general ventilation should be used.

8.3 Personal Protective Equipment

Wear coveralls, suitable chemical resistant gloves (DO NOT use natural rubber) and safety goggles when handling the concentrated product or contaminated surfaces and dealing with spillages. In emergency conditions, use self-contained breathing apparatus.

9. Physical and Chemical Properties:

9.01 Appearance:	A white to off-white liquid
9.02 Odour:	Like typical paint
9.03 pH:	5.8 (1% aqueous suspension)
9.04 Boiling Point / Range:	Not stated
9.05 Flash Point / Flammability:	61o C
9.06 Explosive Properties:	Not classified as explosive
9.07 Oxidising Properties:	Not classified as oxidizing
9.08 Vapour Pressure:	Negligible
9.09 Relative Density:	0.992g/cm ³ (20oC)
9.10 Solubility:	Emulsifies/suspends
9.11 Partition Coefficient:	Not stated
9.12 Viscosity:	Not stated
9.13 Vapour Density:	Not applicable
9.14 Evaporation Rate:	Not applicable

10. Stability and Reactivity:

- 10.1 Materials to Avoid:**
Avoid contact with strong basic, acidic or oxidising materials.
- 10.2 Conditions to avoid:**
Avoid extremes of temperature.
- 10.3 Hazardous Decomposition Products:**
None known.

11. Toxicological Information:

Acute Oral LD50:	>2000mg/kg.bw (rat)
Acute Dermal LD50:	>5000mg/kg.bw (rat)
Irritancy:	Brief contact may cause skin irritation with local redness.

12. Environmental Protection:

12.1 Ecotoxicity:

Material is harmful to fish on an acute basis.
 Material is harmful to aquatic invertebrates on an acute basis.
 Material is toxic to algae.

12.2 Mobility:

DO NOT contaminate surface waters or ditches with chemical or used containers.

12.3 Persistence and Degradability:

Florasulam: Half-life in soils is approximately 2-18 days. No evidence of significant leaching.
 Fluroxypyr 1-methylheptyl ester: Rapidly hydrolysed in soil and water (with a half life of less than 1 day) to the parent acid, which undergoes further degradation.

12.4 Bioaccumulative Potential:

Not known.

13. Disposal of Unwanted Product and Used Containers:

13.1 Disposal of Used Preparation:

Consult the local authorities before disposing of unwanted chemical. DO NOT contaminate ponds, waterways or ditches with chemical.

13.2 Disposal of Packaging:

Dispose of containers by sending to licensed reclaimer or to permitted incinerators. DO NOT reuse containers for any purpose.

14. Transport Information

Road and Rail:	
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUROXYPYR)
Truck/Rail ADR/RID:	9
Label:	9
Classification Code:	M6
Packing Group:	III
UN Number:	3082
Tremcard Nr. CEFIC:	90GM6-III
Sea:	
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUROXYPYR)
Sea – IMO/IMDG Class:	9
UN Number:	3082
Label:	9
Packing Group:	III
Marine Pollutant:	Y
Air:	
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUROXYPYR)
Air-ICAO/IATA Class:	9
UN Number:	3082
Label:	9
Packing Group:	III
Pack Instr - Passenger:	914
- Cargo:	914
	NB: Sample shipment not allowed by mail

15. Regulatory Information:

<p>Risk Phrases:</p> <p>R10:</p> <p>R36/38:</p> <p>R37:</p> <p>R43:</p> <p>R50/53:</p> <p>R51/53:</p> <p>R65:</p> <p>R66:</p> <p>R67:</p> <p>Safety Phrases:</p> <p>S24:</p> <p>S26:</p> <p>S35:</p> <p>S37:</p> <p>S57:</p>	<p>IRRITANT Dangerous for the Environment</p> <p>Flammable.</p> <p>Irritating to eyes and skin.</p> <p>Irritating to respiratory system.</p> <p>May cause sensitisation by skin contact.</p> <p>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>Harmful: May cause lung damage if swallowed.</p> <p>Repeated exposure may cause skin dryness or cracking.</p> <p>Vapour may cause drowsiness and dizziness.</p> <p>Avoid contact with skin.</p> <p>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>This material and container must be disposed of in a safe way.</p> <p>Wear suitable gloves.</p> <p>Use appropriate containment to avoid environmental contamination.</p>
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16. Other Information:

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.